Quick Programmer's Manual

PLUS

inner range IQ

SMART SECURITY SYSTEMS

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Part Number: 630048plus

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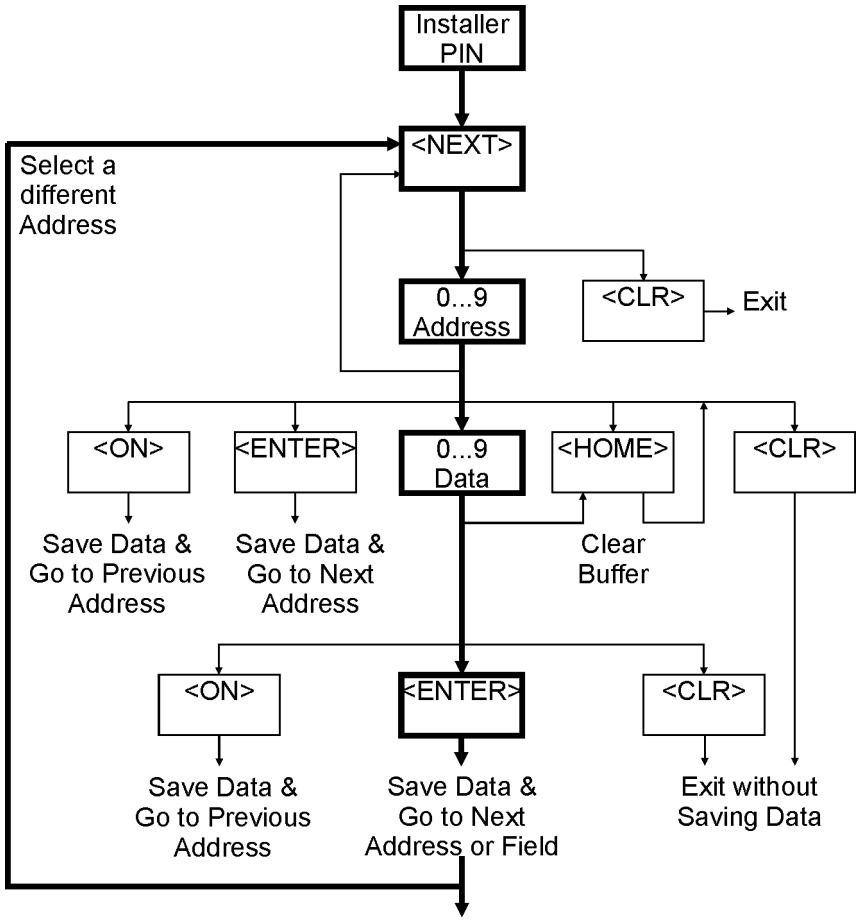
1. PROGRAMMING FLOWCHART.

The following flowchart provides an overview of the simple steps involved in programming the system Data and Options.

- The Bold path indicates the typical sequence.
- "<CLR>" can be used at anytime to Exit programming mode without saving changes in the current data field displayed.
- "<HOME>" can be used to clear the buffer of all data, ready for a new data entry.



2. PROGRAMMING METHODS

Inner Range IQ has been designed to provide a versatile system that is quick & easy to program & commission.

THERE ARE 5 WAYS TO *QUICKLY* PROGRAM YOUR INNER RANGE IQ.

FROM THE PROGRAMMING KEY

1 Portable Memory Device

Used to Download programming data into a Controller that has been copied from another Controller or from a Computer.
See page 4 of this manual.

FROM A COMPUTER

2 Upload / Download Software

Allows system programming while on-line to the Controller or while off-line. Connection can be via local Serial Port (using the "Port 0 Cable") or via remote dial-up. This software is also used to view "Review" history.
Download for free from www.innerrange.com

FROM THE TERMINAL

3 Factory Defaults

Much of the basic system programming can be quickly implemented by selecting one of the System Default options.

See Page 16 of the Programmer's manual for the Default procedure and an overview of the System Default options.

See the Tables section of the Programmer's manual for a full description of each System Default option.

4 Address Location -Numerical Order

Section 9 - of the Programmer's Manual outlines the programming of the IQ by the numerical Address, a listing is on Page 24 of this manual..

401-495	Users
500-520	Comms
521-569	Areas
570-589	Holidays
590-595	Daylight Saving
600-741	Zone Inputs
750-769	TimeZones
800-870	Auxiliaries
890-893	General Opts
897-899	System Inputs
900-914	Times/Counts
918-919	Access Control

5 Primary and Secondary option programming.

In many cases, a system can be fully programmed by following the Basic Programming Guide flowchart steps described on pages 10 to 24.

Additional Features can then be added by following the Advanced Feature Programming described in Section 8 of the Programmer's Manual.

3. PROGRAMMING KEY

3.1 INTRODUCTION.

THE PROGRAMMING KEY.

The IQ Programming Key is a portable non-volatile memory device housed in a convenient "key tag".

The Programming Key allows system programming to be uploaded from the Control Module or downloaded to the Control Module by simply inserting the Programming Key into Serial Port 0 and performing a simple key sequence on the LED Terminal. See below.

A built-in Lamp (embedded in the plastic surface) on the Programming Key visually indicates when data transmission is active.

IQ PROGRAMMING KEY & FLASH INTERFACE.

This device allows the Programming Key to be connected to a PC for transferring Panel data to and from the Upload/Download software.

NOTE: The IQ Programming Key & Flash Interface can also be used to connect a PC to the "Flash" connector (JP8) on the Controller for the purpose of providing a Flash Upgrade of the Controller Firmware version.
Refer to your Inner Range IQ distributor for more details.

3.2 IMPORT DATA FROM THE PROGRAMMING KEY.

This Mode allows the Installer to copy the programming contents of the Programming Key into the Control Module.

IMPORTANT NOTE: The new data will override the existing contents of the Control Module memory.

Connect the Programming Key to Serial Port 0 on the Control Module.

Select the Import Data Mode:
Enter PIN; 'n' 'n' 'n' 'n'... , then NEXT , then the Mode number; 0 , 9 , 6 .

The Lamp on the Programming Key will flash slowly to indicate data is being copied. The Terminal beeper will sound 3 short beeps if the operation was successful, or 1 long beep if unsuccessful.

3.3 EXPORT DATA TO THE PROGRAMMING KEY.

This Mode allows the Installer to copy the programming contents of the Control Module into the Programming Key.

IMPORTANT NOTE: The Control Module data will override the existing contents of the Programming Key.

Connect the Programming Key to Serial Port 0 on the Control Module.

Select the Export Data Mode:
Enter PIN; 'n' 'n' 'n' 'n'... , then NEXT , then the Mode number; 0 , 9 , 7 .

The Lamp on the Programming Key will flash quickly to indicate data is being copied. The Terminal beeper will sound 3 short beeps if the operation was successful, or 1 long beep if unsuccessful.

4. ACCESS CONTROL AND THE IQ PLUS.

REQUIRED EQUIPMENT.

Enhanced Access Terminal V2.01 or greater; Door strike; Relay board for door strike; Wiegand reader. The Terminal installation document 635500EN contains additional information on installation.

DOOR OPTIONS.

The Door (door strike and door reed switch) connected to the Terminal is automatically associated with that Terminal and can be referred to by the Terminal number, for example; Terminal 1 = door 1. Terminals can be associated to areas and will only display zone activity for that Area. (Address 561-564)

All doors will use the same global lock open time (time the door strike is activated) as programmed at address 909 - Terminal Auxiliary time. This must be programmed to a value other than 0 for the door to remain open following a valid request to open. **If a 0 is left at this location the lock will open but close again almost immediately, i.e. remain locked.** Valid entries are from 0 to 255 seconds. (Factory default 5 Seconds).

REQUEST TO EXIT BUTTON.

A "Request to Exit" (REX), is typically a button provided to unlock a door from the inside either bypassing the need to use a reader during low security periods, or because an internal (exit) reader is not required. The "REX" device can also be a PIR or Photo-Electric beam to detect the User approaching the door. If a REX button is fitted it will activate the door for the lock open time (see above). The REX operation is enabled regardless of the state of the associated Area and is entered into Access Review.
The OFF key can also be used as a REX button if it is programmed at address 918.

ADDING A CARD AND USER PIN.

Once fitted and tested, learning the card (entering the card details into the panel) is done exactly the same as adding a User PIN with the exception that the card is also presented (explained in detail in Section 7, the Basic Programming Guide).

A User can have both a PIN and card, accessing the door using either method. A reader need not be fitted if PIN only access is required. The door will open for lock open time following a valid PIN + OFF key.

For higher security applications, both PIN and card can be required to open the door. This option is global and is set at Address 919.

Each door will assume Area control of the Area associated with the Terminal, a Terminal MUST be associated with an Area.

The following general rules apply: (see "Access Control" in Section 8)
1) If the User is assigned to an Area that is also associated to the Terminal,
(a)If the Area is armed, presenting a credential (card) will disarm the associated Area and open the door. (The event is entered into Access Review).
(b) If the Area is disarmed, presenting a credential will open the door. (The event is entered into Access Review)

2) If the User is not assigned to the Area associated to the Terminal,
(a) If the Area is armed, presenting a credential will not open the door (The event is entered into Access Review).
(b) If the Area is disarmed, presenting a credential will open the door (The event is entered into Access Review).

DOOR FORCED

A Door Forced condition is activated when the reed switch goes into alarm without a valid request to open the door, this also causes the Door Forced system input to go into alarm. (The event is entered into Access Review)
An Auxiliary can be used to indicate this system input by setting the Auxiliary type; 131 (door1) -138 (door 8) as described in the Tables-Section 10. This Auxiliary will pulse on for 500ms every 5 seconds till cleared. Door Forced is an Alarm condition and is cleared by using a valid PIN+OFF key.

DOTL

A DOTL (Door open too long) condition is activated when the door is open for longer than a period of time equal to 4 times that of the lock open time set at Address 909. This means that once a valid request to open occurs, the lock timer starts and so does the DOTL timer. Causing the DOTL system input to go into alarm. (The event is entered into Access Review)
An Auxiliary can be used to indicate this system input by setting the Auxiliary type; 141 (door 1) -148 (door 8) as described in the Tables-Section 10. This Auxiliary will pulse on for 500ms every 5 seconds till cleared. DOTL is a warning condition and is cleared by using a valid PIN + OFF key or a valid card badge.

Door Forced and DOTL system inputs will turn on the fault light on the Terminal and LEDs 15 or 16 when a NEXT 13 is performed. (Refer System Inputs)
The Zones Inputs on terminals are used for door reed switch (zone1) and REX button (zone2). Each zone must be fitted with the required device or, if not used, must be terminated with 6k8 resistors. *These Zones cannot be used for security zones.*

5. USER OPERATIONS SUMMARY.

5.1 GENERAL USER OPERATIONS. (NO PIN CODE REQUIRED)

NEXT 11 **Day Alarm On/Off.**
This operation will toggle the Day Alarm function On and Off.

NEXT 12 **Alarm History.**
Any Zone Inputs that had an alarm during the last Arming period will be displayed on the Zone Lamps.

NEXT 13 **Fault History.**
Any System Inputs that had an alarm during the last 5 Arming periods will be displayed on the Zone Lamps. Flashing lamp indicates Input is currently in alarm.
Refer to the "System Inputs" table in the Programmer's Manual for details.

NEXT 14 **Zone Self Test History.**
Any Zone Inputs that have failed the Zone Self Test will be displayed on the Zone Lamps.

NEXT 15 **Display Firmware Version.**
The 4 digits of the current Controller Firmware Version will be displayed in sequence. e.g. Sequence 3, 0, 0, 0, = V3.000.

NEXT 16 **Display Door Alarm History.**
Any Door Forced or DOTL Alarm dring the last 5 Arming periods will be displayed on the Zone lamps.

NEXT 19 **Display Module Present.**
Any Module present displayed on the LED display. For example "Terminal 1" present, LED 1 illuminated

5.2 USER OPERATIONS REQUIRING PIN CODE ACCESS. (Installer, Master and Arm/Disarm/Isolate User Types ONLY)

NEXT 21 **Isolate / De-Isolate Zone Inputs.**
Zone Lamps indicate Zones that are currently Isolated.
Entering the Zone number followed by ENTER will toggle the Zone Isolated and De-Isolated.
Zones can be isolated by any User that has disarm permission for all the Areas that are assigned to the Zone.
System Inputs can be isolated by any User with permission to disarm.

NEXT 22 **Isolate / De-Isolate System Alarms.**
Zone Lamps indicate System Inputs that are currently Isolated.
Entering the System Input number followed by ENTER will toggle the Input Isolated and De-Isolated.

NEXT 23 Activate Walk Test.
Puts the system into Walk Test Mode. Any Zone activation causes Siren squawk and Zone Lamp to flash. Press <CLR> to exit.
The system will automatically exit from Walk Test if the "Walk Test Time" (Address 912) expires.
Walk Test only monitors for the Seal and Alarm (Un-seal) conditions. No indication of Zone Input Tamper state is provided.

NEXT 24 Auxiliary Control and Test.
Auxiliary number followed by (ENTER) will toggle the Auxiliary Output On and Off.

0	= Siren Speaker output.	3	= Aux 2 (Gen purpose Aux on Controller)
1	= Aux 1 (Strobe output)	4 - 10	= Aux 4 to 10. (Gen purpose Auxiliaries on Expansion card)

NEXT 25 Trigger Test Report.
Triggers a Test Report to the Central Monitoring Station or the nominated "Domestic Dialer" Telephone.

NEXT 26 Activates the Battery Test.
Switches the Battery Charger Off for 5 seconds to test Battery voltage. 3 Beeps at end of Test = Battery OK. One long tone = Battery Voltage Low.

NEXT 27 Answer Call.
Causes the Controller to automatically answer the next incoming call and attempt to establish Upload/Download connection.
This operation will over-ride any other programming option that disables a remote Upload/Download connection.

NEXT 31 Primary and Secondary Telephone Numbers.
View / Program the Primary and Secondary numbers. (Installer Only with Contact ID enabled (NEXT 505)).

NEXT 32 Call Divert Telephone Numbers.
View / Program the Diver and Un-Divert numbers. The IQ will dial Call Divert when the system is fully armed and dial the Call Un-Divert number when Disarmed.

5.3 DEFAULT USERS

User Number	Description DEFAULT USERS	Factory Default PIN
User 1	Installer, Can perform all Installer operations, and all Master operations.	2345 (or 234567)
User 2	Master User (Primary Master), Can perform all the Master operations and has access to all Areas. The Master operations include; Edit Users, Walk test Zones, Set Time & Date, Siren/Strobe/Auxiliary Testing, Fault Analysis, View Software Version, Test Battery and Door Bell Enable/Disable. The Master User can also perform all User operations. This includes Arming / Dis-arming the system, Isolating Zones and View history.The Master User automatically has permission to control all the Areas, Zones and Auxiliary outputs in the system.	0123 (or 012345)
User 3 to 95	General Users ,(Can be programmed as a Master User (Secondary Master)) Can perform a variety of operations such as Arming / Dis-arming , Isolating Zones and View History with various levels of functionality as defined by the User's "User Type".	None
User 96	Reserved for system functions (e.g. Reporting Auto-arming etc.)	Not applicable

6. MASTER USER OPERATIONS.

6.1 MASTER USER OPERATIONS

NEXT 33 View and/or Set the Time and Date.

Current Time & Date will be displayed in the sequence: hh:mm:DD:MM:YY:d. (Hours, Minutes, Day, Month, Year, Day-of-week)

1) Enter the Time data (hh:mm) then ENTER ,
2) Enter the Date data (DD:MM:YY) then ENTER .
3) Enter the Day of Week (1=Sunday - 7=Saturday) then ENTER .

NEXT 4xx User Programming. Refer to the following pages for details.

Refer to the User's Manual for more information on these functions.

7. BASIC PROGRAMMING GUIDE.

1 ZONE TO 16 ZONE BURGLARY ALARM SYSTEM.

The Programming Sequence beginning on the following page takes the Installer through the steps required to program a typical Burglary Alarm System. Programming options for Multi-Area systems, Access Control and Off-site reporting are included.

In many cases system programming can be completed by following these steps.
Where more advanced programming is required, follow this Basic Programming Guide first, then refer to the programming procedures found in Section 8 of the Programmer's Manual .

IMPORTANT NOTES:

1) It is highly recommended that the system is fully defaulted to the factory presets as described in Step 1 before the rest of the programming sequence is performed.

2) In the database fields described, only the options relevant to basic system programming are shown.
In many cases other options are available. Simply ignore any options not listed. These are not relevant to basic programming and are explained in the appropriate applications in Section 8 of the Programmer's Manual

3) Section 9 of the Programmer's Manual can be referred to for extra details on any option when required.

INSTALLATION NOTES:

1) If Siren and Strobe are to be used, it is recommended that:
   - An 8 Ohm Siren Speaker is connected between "DET+" and "SPK" on connector T5 as shown in the Installation guide. (Aux 0)
   - A 12V Strobe is connected as follows: Strobe + to "DET+", Strobe - to "OUT 1" on connector T5 as shown in the Installation guide. (Aux 1)

If you prefer to progam the system by following the Address locations in numerical order, go to Section 9 of the Programmer's Manual

How to Enter Data. Select Address: Key in the Installer PIN Code; Press [NEXT] then enter the 3 digit Address ['n'] ['n'] ['n'] (A1 to A3 Lamps will flash to prompt for each digit). The current Data will be displayed.
Enter Data: Enter the new Data ['n'] ['n'] .. (1-16 digits) OR Option/s to Select/De-select ['n'], then [ENTER]. NOTE: [HOME] clears the current field of all data or settings ready for new data.

1. DEFAULT THE SYSTEM.

a) Logon to the Terminal using the Installer PIN code and select DEFAULTING THE CONTROL MODULE. **NEXT 098**
-Enter PIN, <NEXT>, 0, 9, 8.

b) Select the Default Option.
- n, <ENTER>.
Where "n" is the Default option.

! CAUTION: This option completely erases all current programming.
0: Completely resets the database to Factory Default settings, including the Installer Code and Master Code.
1, 2 or 3: Completely resets the database to one of the Installer Presets, including the Installer Code and Master Code.
See page 16 Programmer's Manual "Defaulting the system", and the Tables in Section 10 of the Programmer's Manual.

c) Reset the Control Module.
Disconnect the AC Supply input and the Battery from the Control Module. Wait 5 seconds, then Re-connect power.

2. SELECT THE END-OF-LINE RESISTOR TYPE. **NEXT 600**
DEFAULT: Option 3 - 3k3 Single End-of-Line.

END-OF-LINE RESISTOR TYPES:

Single EOL:	**0** -1k	**1** -1k5	**2** -2k2	**3** -3k3	**4** -3k9	**5** -4k7	**6** -5k6	**7** -6k8	**8** -10k	**9** -12k	**10** -22k
Dual EOL:	**11** -2k2, 2k2	**12** -2k2, 6k8	**13** -3k3, 6k8	**14** -10k, 10k	(Provides Tamper state. 1st Value is Series Resistor, 2nd Value is Resistor across contacts)						
Zone Doubed:	**15** -1k, 3k3, 6k8 Zone doubled			**16** -1k, 3k3, 6k8 Zone doubled (no seperate tamper state) *See installation manual for details.*							

3. PROGRAM THE ZONE TYPE/S. **NEXT 601 to 616**
DEFAULT: Zone 1; Type 1-Delayed. Zone 2; Type 2-Handover Zones 3 to 16; Type 0-Instant.

Program the new Zone Type for Zones that are not "Instant" Zones.

Zone	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Address	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616

Zone Types:

0	Instant	1	Delayed	2	Handover	3	Away Instant / Home Isolate
4	Away Instant / HomeDelay	5	Away Delay / Home Isolate	6	Away Delay / Home Delay	7	Away Delay / Home Instant
8	Away Handover / Home Isolate	9	Away Handover / Home Delay	10	24 Hour Burglary	11	24 Hour Fire
12	24 Hour Panic	13	24 Hour duress	14	KeySwitch Arm	15	KeySwitch Home
16	Delay / Force Arm	17	Handover / Force Arm				

4. PROGRAM ANY ADDITIONAL BASIC OPTIONS FOR ZONE INPUTS. **NEXT 651 to 666**

Zone	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Address	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666

1	Silent	When selected, Siren is not activated when an alarm is triggered on this Zone. (NOTE: "Silent" over-rides "Siren Lockout")
2	Siren Lockout	Zone will only trigger the Siren for the number of times specified in the "Siren Swinger Shutdown Count". (Address 013)
7	Change Sense (Normally Open Contacts)	The "Sealed" and "Alarm" states are swapped so that an alarm is triggered when an Open to Closed transition occurs on the detector contacts. May be required for smoke detectors, etc.

5. PROGRAM THE SIREN SWINGER SHUTDOWN COUNT. **NEXT 913**
DEFAULT: 16
(Only required if the "Siren Lockout" option is selected for any Zones in the Zone Options above)

Program the number of times (0 to 255) the Siren can be triggered by a Zone Input in a single Arming period before Siren Lockout occurs.
(The counter is reset when the Area is turned Off)

6. ENABLE/DISABLE THE SYSTEM INPUT ALARMS THAT ARE REQUIRED TO ACTIVATE THE SIREN. **NEXT 897.**

1	AC Fail.	3	Cabinet Tamper. (Enabled by default)	5	Comms Fail / System Reset / Real-time Clock Problem.	7	LAN Fuse / Battery Fuse.
2	Low Battery	4	Keypad Lockout.	6	Siren Monitor		

7. ENABLE/DISABLE THE KEYPAD EMERGENCY ALARMS THAT ARE REQUIRED TO ACTIVATE THE SIREN. **NEXT 899.**

1	Panic Alarms will activate the Siren.	Enabled by default
3	Fire Alarms will activate the Siren.	Enabled by default
5	Medical Alarms will activate the Siren.	Enabled by default

8. PROGRAM THE BASIC SYSTEM TIMERS.

HomeGuard Time. **DEFAULT: 90 Seconds.** **NEXT 900**
Program a value from 0 to 255 Seconds. Sets the Home Zone Entry Delay time for the "Home Delayed" function in Zone Types 4, 6 & 8.

Siren Time. **DEFAULT: 5 Minutes.** **NEXT 904**
Program a value from 0 to 255 Minutes.

Keypad Lockout Time. **DEFAULT: 5 Minutes.** **NEXT 905**
Program a value from 0 to 255 Seconds. Sets the time that keypad operation will be disabled after 5 incorrect login (PIN Code) attempts.

AC Report Delay Time. **DEFAULT: 0 Minutes.** **NEXT 906**
Program a value from 0 to 255 Minutes. Sets the time that the AC must be continuously disconnected before an AC Fail alarm is generated.

Siren Holdoff Time. **DEFAULT: 0 Seconds.** **NEXT 910**
Program a value from 0 to 255 Seconds. Sets the time that the activation of the External Siren will be delayed after an alarm occurs.

Fire Zone (Smoke Detector) Ignore Time. **DEFAULT: 60 Seconds.** **NEXT 911**
Program a value from 0 to 255 Seconds. Sets the time that activity on "24 Hour Fire" Zone Types will be ignored after a Smoke Detector Reset occurs.

9. ENABLE/DISABLE ANY BASIC GENERAL SYSTEM OPTIONS THAT ARE REQUIRED FROM "GENERAL OPTIONS 1". NEXT 890

	Option	Default	Description
1	Auto-Isolate on Arming.	No	If selected, unsealed Zones will automatically isolate when the Area is Armed at the end of the Exit Delay.
2	Quick Arming.	No	If selected, no PIN Code required for arming Areas.
3	Force Arm Areas.	No	If selected, Area will Arm regardless of any unsealed Zones. If "Auto-Isolate on Arming" is selected, any unsealed Zones will be Isolated. If not, unsealed Zones will go into alarm.
4	Clock Synchronized to 50Hz AC Mains.	Yes	Only Disable if Mains supply frequency is not stable, or if Controller is only powered by a DC supply.
5	Zone Alarm indication after Disarm.	Yes	Terminal automatically goes to Alarm History Display when Disarmed if an Alarm has occurred in that Area.
6	Display Zone activity when Disarmed.	Yes	Enables display of Zone activity via the Terminal Zone LED's when Area/System is Disarmed.
7	Special Siren Tone for System Inputs	Yes	Special Siren Tone used for System Inputs that are programmed to activate the Siren. No = Normal Burglary Siren Tone. (Default setting) Yes = 1 Sec bursts for 4.25 minutes unless cancelled by PIN Code.
8	Single Exit Beep in Home Mode.	Yes	If selected, Exit beeps are replaced with a single beep at start of Exit Delay when Armed in Home Mode.

How to Enter Data. Select Address: Key in the Installer PIN Code; Press [NEXT] then enter the 3 digit Address ['n'] ['n'] ['n'] (A1 to A3 Lamps will flash to prompt for each digit). The current Data will be displayed.
Enter Data: Enter the new Data ['n'] ['n'] .. (1-16 digits) OR Option/s to Select/De-select ['n'], then [ENTER]. NOTE: [HOME] clears the current field of all data or settings ready for new data.

10. PROGRAM THE CURRENT TIME AND DATE. (Master User Operation) **NEXT 33**

Set the Real-Time Clock.
The Time, Date and Day of Week are programmed in 3 separate fields in the following order: hh:mm (1st Field); DD:MM:YY (2nd Field); day (3rd Field)
i.e. Hour, Hour; Minute, Minute; Day, Day; Month, Month; Year, Year; Day Of Week: (Sunday=1, Monday=2, Tues=3, Wed=4, Thurs=5, Fri=6, Saturday=7)

Key in the data for the current Field, then press <ENTER> to save the data in the current Field and advance to the next Field.
e.g. 1) 07:24 AM, 5th June, 2003. Monday. 0, 7, 2, 4, <ENTER>; 0, 5, 0, 6, 0, 3, <ENTER>; 2, <ENTER>.
2) 05:15 PM, 20th September, 2004. Thursday. 1, 7, 1, 5, <ENTER>; 2, 0, 0, 9, 0, 4, <ENTER>; 5, <ENTER>.

11. PROGRAM THE DAYLIGHT SAVING START AND END DATES. **NEXT 590 to 595**

Address	Parameter	Range	Default	Address	Parameter	Range	Default
590	Daylight Saving Start Month	0 - 12	0	593	Daylight Saving End Month	0 - 12	0
591	Daylight Saving Start Week	1 - 5	5	594	Daylight Saving End Week	1 - 5	5
592	Daylight Saving Day-of-week In Start Week	1 - 7	1	595	Daylight Saving Day-of-week In End Week	1 - 7	1

1 - Sunday 2 - Monday 3 - Tuesday 4 - Wedesday 5 - Thursday 6 - Friday 7 - Saturday

12. ENABLE THE STROBE. (IF A STROBE IS CONNECTED TO "OUT1") **NEXT 801**

The Strobe output (OUT1) on the Controller is controlled by Auxiliary 1.

To enable the Strobe output, assign Event Type 1 - Burglary Alarm (Strobe), to Auxiliary 1 at Address 801.

Is the system a Multi-Area system?

Single Area System. Go to Step 14a. — **NO**

YES. — **Multi Area System.**

13. PROGRAM THE MULTI-AREA GENERAL OPTIONS.

NEXT 891

	Option	Default	Description
1	Multi Area system.	No	
4	All Areas Siren Off control.	No	Any User with Disarm privileges can cancel Siren.

14A. ASSIGN AREA 1 TO ALL ZONES USED. NEXT 701 to 716

DEFAULT: Area 1 assigned to Zones 1 to 8.

Assign Area 1 to all the Zones that are used in the system by enabling Option 1 (Area 1) in the relevant Addresses from 701 to 716.

Zone	1	2	3	4	5	6	7	8
Address	701	702	703	704	705	706	707	708
Zone	9	10	11	12	13	14	15	16
Address	709	710	711	712	713	714	715	716

14B. ASSIGN THE REQUIRED AREA/S TO ZONES.

NEXT 701 to 716

DEFAULT: Area 1 assigned to Zones 1 to 8.

Assign the required Area/s to all the Zones that are used in the system by enabling the Options in the relevant Addresses from 701 to 716.
NOTE: Normally, only one Area is assigned to a Zone.

Zone	1	2	3	4	5	6	7	8
Address	701	702	703	704	705	706	707	708
Zone	9	10	11	12	13	14	15	16
Address	709	710	711	712	713	714	715	716

1 - Area 1 assigned.
2 - Area 2 assigned.
3 - Area 3 assigned.
4 - Area 4 assigned.

How to Enter Data. Select Address: Key in the Installer PIN Code; Press [NEXT] then enter the 3 digit Address ['n'] ['n'] ['n'] (A1 to A3 Lamps will flash to prompt for each digit). The current Data will be displayed.
Enter Data: Enter the new Data ['n'] ['n'] .. (1-16 digits) OR Option/s to Select/De-select ['n'], then [ENTER]. NOTE: [HOME] clears the current field of all data or settings ready for new data.

Single Area System

15A. PROGRAM AREA 1 ENTRY DELAY. **NEXT 531**
DEFAULT: 30 Seconds
Program a value from 0 to 255 Seconds.

PROGRAM AREA 1 EXIT DELAY. **NEXT 541**
DEFAULT: 60 Seconds
Program a value from 0 to 255 Seconds.

Go to Step 17.

Multi-Area System

15B. PROGRAM AREA ENTRY DELAYS AS REQUIRED.
DEFAULT: 30 Seconds
Area 1 ..... NEXT 531
Area 2 ..... NEXT 532
Area 3 ..... NEXT 533
Area 4 ..... NEXT 534
Program a value from 0 to 255 Seconds.

PROGRAM AREA EXIT DELAYS AS REQUIRED.
DEFAULT: 60 Seconds
Area 1 ..... NEXT 541
Area 2 ..... NEXT 542
Area 3 ..... NEXT 543
Area 4 ..... NEXT 544
Program a value from 0 to 255 Seconds.

16. PROGRAM THE TERMINAL ASSOCIATED AREA/S.
Terminal 1 ..... NEXT 561
Terminal 2 ..... NEXT 562
Terminal 3 ..... NEXT 563
Terminal 4 ..... NEXT 564

This determines the Area used for Arming/Disarming operations, Zone Lamp display and Entry/Exit warnings. One of the following options can be selected:

0 - Multi-Area (All Areas are associated with the Terminal) DEFAULT.
1 - Area 1 is associated with the Terminal.
2 - Area 2 is associated with the Terminal.
3 - Area 3 is associated with the Terminal.
4 - Area 4 is associated with the Terminal.

17. ENABLE/DISABLE REMOTE CONNECT FOR UPLOAD/DOWNLOAD.

Select the Remote Connect Option. **DEFAULT: 1 - Remote Connect Enabled** **NEXT 512**

0	Remote Connect not allowed.
1	Remote Connect Enabled. (Default)
2	Remote Connect Enabled with Callback.

Program the number of Rings to Answer - If Option 1 or 2 selected above. **DEFAULT: 16** **NEXT 513**

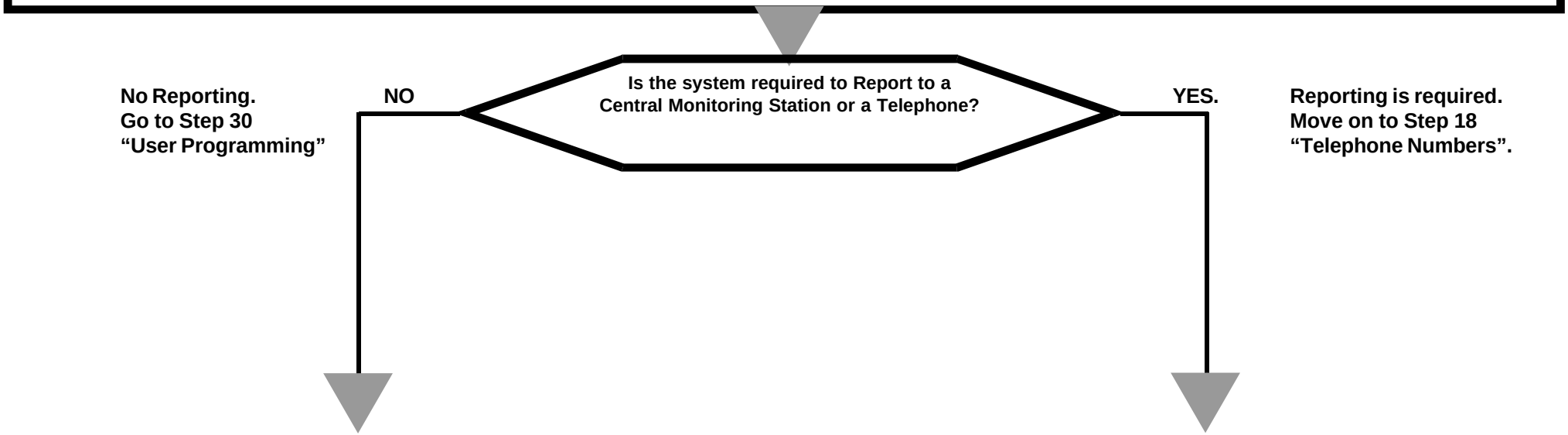
Program the number of Rings. A value in the range of 3 to 16 Rings may be programmed.

Enable an Answering Machine (Fax) Bypass option if required. **DEFAULT: 0 - Disabled** **NEXT 514**

0	Disabled.	2	Follow-on time = 30 Seconds.
1	Follow-on time = 10 Seconds.	3	Follow-on time = 60 Seconds.

Callback Telephone Number - If Remote Connect Option 2 is selected. **NEXT 504**

Program the Telephone number of the Remote Computer. Up to 16 digits allowed. See Step 18 for programming information.


Is the system required to Report to a Central Monitoring Station or a Telephone?
NO
No Reporting. Go to Step 30 "User Programming"
YES.
Reporting is required. Move on to Step 18 "Telephone Numbers".

How to Enter Data. Select Address: Key in the Installer PIN Code; Press [NEXT] then enter the 3 digit Address ['n'] ['n'] ['n'] (A1 to A3 Lamps will flash to prompt for each digit). The current Data will be displayed.
Enter Data: Enter the new Data ['n'] ['n'] .. (1-16 digits) OR Option/s to Select/De-select ['n'], then [ENTER]. NOTE: [HOME] clears the current field of all data or settings ready for new data.

No Reporting.
Go to Step 30.
"User Programming"

Contact ID or Domestic Dialer Reporting.

18. PROGRAM THE PRIMARY AND SECONDARY TELEPHONE NUMBERS.

Primary Telephone Number. **NEXT 500**
Program the Primary Telephone number for Reporting. Up to 16 digits allowed.

Secondary Telephone Number. **NEXT 501**
If required, program a Secondary Telephone number for Reporting. Up to 16 digits allowed.

Programming Telephone number digits:
0 to 9 = 0 to 9 10 = *
11 = # 12 = 4 Second pause
Multi-digit numbers are entered by pressing the <OFF> key. e.g. To program a #, Press <OFF>, 1, 1.

19. SELECT THE REPORTING FORMAT. **NEXT 505**

1	Contact ID.	Reports to a Central Monitoring Station in Contact ID format via the PSTN Line connection.
2	Domestic Dialer.	Reports to a private telephone with simple tone beeps via the PSTN Line connection.
3	CFSK	Not available in this version
4	Securitel	Reports Securitel via Port 0 or Port 1 (see Section 8 of Programming Manual)
	Dual Reporting	Reports to both of the programmed telephone numbers in Contact ID and/or Domestic Dialer formats.

Note: If Dual Reporting is required, select Option 8 FIRST. Refer to Programming Advanced Features Section 8 and Programming Reference, Section 9 of Programming Manual for further details.

Is the Reporting Format - Option 1 - Contact ID enabled?

NO → **Domestic Dialer.**
Go to Step 21 Dialer Options.

YES → **Contact ID**
Move on to Step 20 Client Codes.

No Reporting.
Go to Step 30
"User Programming"

Domestic Dialer.
Go to Step 21
"Dialer Options"

Contact ID.
Go to Step 20 Client Codes.

20. PROGRAM THE AREA CLIENT CODE/S.

Area 1 / General Area ..... NEXT 521
Area 2 ..... NEXT 522
Area 3 ..... NEXT 523
Area 4 ..... NEXT 524

Program one or more 4 digit Client Codes. Default for Area 1 is 9999, all other Areas are blank and will use the value from Area 1 or if required, a unique Client Code may be programmed for each Area that is to Report. Client Code/s are provided by the Central Monitoring Station. **Program the Securitel "Hard ID" into the General Area / Area 1 Client Code, STU or PANEL must be restarted if the value is changed.**

21. PROGRAM THE DIALER OPTIONS. **NEXT 506**

	Option	Default
1	Alarms reported via Dialer.	Yes
2	Alarm Restores reported via Dialer.	Yes
3	Isolates reported via Dialer.	Yes
4	Report Open only after an alarm.	No
5	General Open/Close reporting.	No
6	All Area Opens/Closes reported via Dialer.	No
7	System Restores reported via Dialer.	No

Note: When Securitel Reporting is used, the selected events at 506 will be reported via Securitel

22. PROGRAM THE GENERAL OPEN/CLOSE AREA LISTS. **NEXT 507**
Required only if Dialer Option 5 -"General Open/Close Reporting" selected above.
DEFAULT: Area 1.

Assign the required Area/s to the General Open/Close Area List: (NOTE: Area 1 must be included in the list)
1 - Include Area 1. (Enabled by Default)
2 - Include Area 2.
3 - Include Area 3.
4 - Include Area 4.

How to Enter Data. Select Address: Key in the Installer PIN Code; Press [NEXT] then enter the 3 digit Address ['n'] ['n'] ['n'] (A1 to A3 Lamps will flash to prompt for each digit). The current Data will be displayed.
Enter Data: Enter the new Data ['n'] ['n'] .. (1-16 digits) OR Option/s to Select/De-select ['n'], then [ENTER]. NOTE: [HOME] clears the current field of all data or settings ready for new data.

No Reporting.
Go to Step 30
"User Programming"

23. PROGRAM THE MAXIMUM DIAL ATTEMPTS. **NEXT 508**
DEFAULT: 8 Attempts

Program the Maximum number of Dial Attempts from 1 to 16.
! CAUTION: Communications Authority Regulations limit the maximum number of dial attempts.
In Australia the ACA specify a limit of 10 Attempts.

24. PROGRAM THE TEST REPORT OPTIONS.

Test Report Period **DEFAULT: 7** **NEXT 509**
Program the number of Days between Test Reports from 0 (No Test Report) to 255.

Program the Time of Day when the Test Report will be transmitted.
Test Report Hour **DEFAULT: 3** **NEXT 510**
Program the Hour value from 0 to 23.

Test Report Minute **DEFAULT: 30** **NEXT 511**
Program the Minute value from 0 to 59.

25. PROGRAM THE DIALER LOCKOUT OPTION FOR ZONE INPUTS IF REQUIRED. **NEXT 651 to 666**

Zone	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Address	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666

3	Dialer Lockout	Zone will only trigger the Dialer for the number of times specified in the "Dialer Swinger Shutdown Count". (Address 014)

No Reporting.
Go to Step 30
"User Programming"

26. PROGRAM THE DIALER SWINGER SHUTDOWN COUNT. **NEXT 914**
DEFAULT: 16
(Only required if the "Dialer Lockout" option is selected for any Zones in the Zone Options in Step 25 above)

Program the number of times (0 to 255) the Dialer can be triggered by a Zone Input, in a single Arming period, before Siren Lockout occurs.
(The counter is reset when the Area is turned Off)

27. ENABLE/DISABLE ANY GENERAL OPTIONS THAT ARE REQUIRED FROM "GENERAL OPTIONS 2". **NEXT 891**

	Option	Default	Description
6	Delay Siren until Comms complete.	No	Siren operation will not be initiated until a report has been sucessfully sent, or a Comms Fail alarm generated.
8	Dialer enabled in Home Mode.	No	If selected, Alarms and Open/Close reports will be sent for Areas armed in Home Mode.

28. ENABLE/DISABLE THE SYSTEM INPUT ALARMS THAT ARE REQUIRED TO ACTIVATE THE DIALER. **NEXT 898.**

	Option	Default
1	AC Fail.	Yes
2	Low Battery.	Yes
3	Cabinet Tamper.	Yes
4	Keypad Lockout.	No
5	Comms Fail / System Reset.	Yes
6	Siren Monitor.	Yes
7	LAN Fuse / Battery Fuse.	Yes
8	Zone Self-Test Fail.	No

	Option	Default
15	Door Forced	NO

How to Enter Data. Select Address: Key in the Installer PIN Code; Press [NEXT] then enter the 3 digit Address ['n'] ['n'] ['n'] (A1 to A3 Lamps will flash to prompt for each digit). The current Data will be displayed.
Enter Data: Enter the new Data ['n'] ['n'] .. (1-16 digits) OR Option/s to Select/De-select ['n'], then [ENTER]. NOTE: [HOME] clears the current field of all data or settings ready for new data.

No Reporting.
Go to Step 30
"User Programming"

29. ENABLE/DISABLE THE KEYPAD EMERGENCY ALARMS REQUIRED TO ACTIVATE THE DIALER.
NEXT 899.

	Option	Default
2	Panic Alarms will activate the Dialer.	Yes
4	Fire Alarms will activate the Dialer.	Yes
6	Medical Alarms will activate the Dialer.	Yes
7	Duress Alarms will activate the Dialer.	No

Note: When Securitel Reporting is used, the selected events at 899 will be reported via Securitel

30. PROGRAM THE USERS (Wireless Remote Key + Card)
An Installer Code or Master User Code must be used to program the Users.

Master: NEXT 402
Other Users: NEXT 403 to 495

Program a User.

1) Key in your PIN, then Select the User Number. Press [NEXT] , [4] , ['n'] , ['n'] .(402 = Master. 403 to 495 = User 3 to User 95),
a User can have a Wireless Remote and/or a PIN **OR** a Card and/or a PIN. A seperate User Number is required if a User has a Wireless Remote and a Card (different PIN numbers).

2a) **Wireless Remote Key** (if Required, used with Enhanced RF Terminals or RF Module)
Enrol the User Wireless Remote Key by pressing a button on the Remote Key within 30 seconds of selecting the User number.
Three short beeps will sound to confirm that the Remote Key has been enrolled and assigned to the selected User.
If the Remote Key is already assigned to another User, or is not recognised by the system, one long beep will sound to indicate a problem.

OR

2b) **User Card** (if required, used with Enhanced Access Terminals)
Present the card at the attached reader head and observe the tones.
High tones indicate acceptance, low tone indicate rejection of the card.

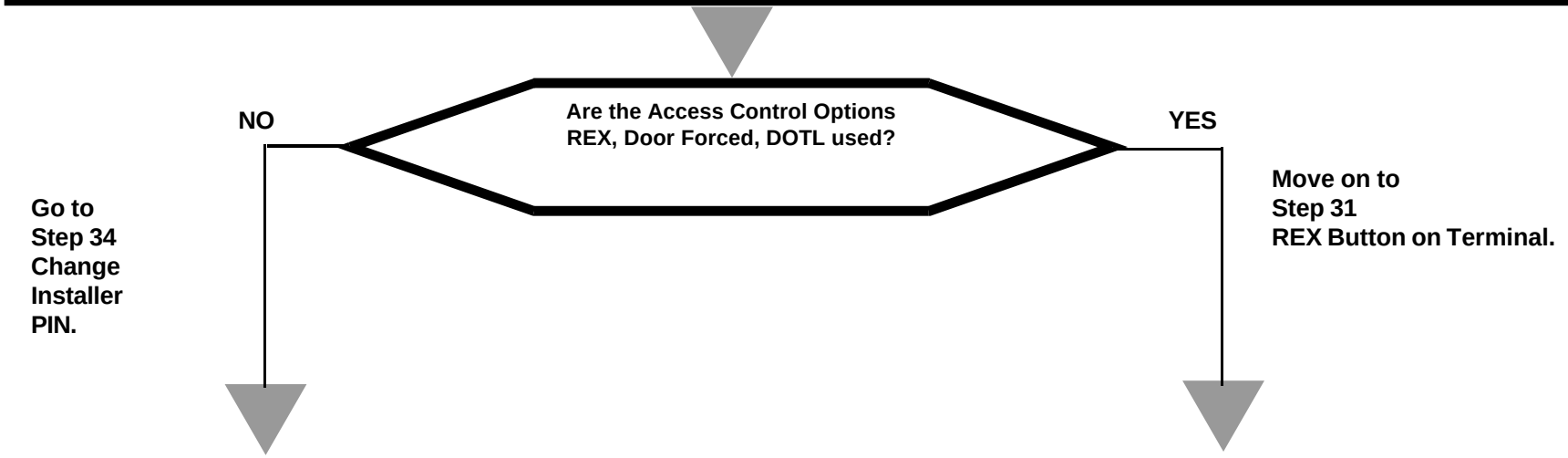
Step 30 Continued Next Page

30. PROGRAM THE USERS (Wireless Remote Key + Card) cont.

3) **User PIN number** (if required, must be entered if a Remote or Card is not used)
Enter the new PIN number 'n' 'n' 'n' 'n'... (4 or 6 digits), then press ENTER .
4) Press the Area number/s 'n' for each Area to be Assigned to this User (0=All Areas De-selected), then press ENTER .
5) Select the new User Type number 'n' , then press ENTER . See table below.

0	Arm Only.	1	Patrol. Arm / Disarm only after an alarm.		
2	Arm / Disarm.	3	Defer Arm Only.	4	Toggle User Auxiliary A
5	Toggle User Auxiliary B	6	Arm / Disarm / Isolate.	7	Master.
8	Access Only	9	Access Without Disarm		

Delete a User.
1) Key in your PIN, then Select the User Number. Press NEXT , 4 , 'n' , 'n' .
2) Press 0 then ENTER .


Are the Access Control Options REX, Door Forced, DOTL used?
NO
YES
Go to Step 34 Change Installer PIN.
Move on to Step 31 REX Button on Terminal.

No Access Options.
Go to Step 34
"Change Installer PIN"

31. REX BUTTON ON TERMINAL

An Installer Code or Master User Code must be used to program this option

1) Key in your PIN, then Press [NEXT] , [9] , [1] , [8] , then [1] [ENTER] to enable ([0] to disable), default is disabled

This option enables the OFF key on the Terminal to act as a REX button

32. DOOR FORCED

An Installer Code or Master User Code must be used to program this option

Programming the DOOR FORCED system input for DOOR 1, to operate an auxiliary.

This option can require the use of the plug-on auxiliary board

1) Key in your PIN, then Press [NEXT] , [8] , [1] , [0] , then [1] , [3] , [1] then [ENTER]

This assigns event type 131 to Aux 10, when the door reed for DOOR1 goes into alarm without a valid request to open the door, an output on auxiliary 10 will occur. Cleared with a valid PIN + OFF key.

33. DOOR OPEN TOO LONG (DOTL)

An Installer Code or Master User Code must be used to program this option

Programming the DOTL system input for DOOR 1, to operate an auxiliary.

This option can require the use of the plug-on auxiliary board

1) Key in your PIN, then Press [NEXT] , [8] , [0] , [9] then [1] , [4] , [1] then [ENTER]

This assigns event type 141 to Aux 9, when the door reed for DOOR1 is open for longer than a period of time equal to 4 times that of the lock open time set at address 909. Cleared with a valid PIN + OFF key or valid card badge.

34. CHANGE THE INSTALLER PIN CODE. NEXT 401

This should be done before the system commissioning is completed and system operation is handed over to the client.
Ensure that a new PIN code is chosen that will not be forgotten, while still providing security against unauthorised access.
Follow the Steps of "Program a User" above. Note that Area Selection and User Type cannot be changed for the Installer Code.

The following features can be programmed to operate in addition to the Primary system features.
They can be found in the Programmer's Manual.

Page in Programmer's Manual	Feature	Description
38	Access Control	Access Review to be written to General Review, Siren output when Door Forced alarm, Door Forced & DOTL reporting to the dialler.
39	Auto-Arm / Auto Disarm.	TimeZones can automatically Arm and/or Disarm Areas in Away or Home mode and provide auto-arm warnings if required.
40	Auxiliary to Follow a TimeZone	TimeZones can control Auxiliary outputs for automatic control of ancillary devices such as lighting, irrigation, pool filters, etc.
40	Battery Testing.	Automatic battery testing can be performed every 8 hours and/or on Area arming to ensure continuous operation if the AC power fails
41	Callback for Remote Connect.	Requirement for the system to callback a pre-programmed number to establish remote connection for Upload/Download.
41	Call Forwarding.	The system can dial your call divert number when armed and the un-divert number when disarmed.
41	Computer connection (Local)	A computer can be connected directly to the Controller via the on-board Serial Port for Upload/Download.
41	Computer Connection (Local) Printer	A printer can be directly connected to the Controller via the on-board Serial Port
42	Day Alarm.	A Zone Input can operate an Auxiliary output for activating Door Bells, lights, etc. when disarmed.
42	Defer Arming	Allows automatic arming if no movement is detected for a specified period to ensure thatat an Area is not left disarmed.
42	DTMF Remote Control	Remote Control of Areas and Auxiliaries can be provided from any touch-tone (DTMF) telephone.
42	Keyswitch Arming and Disarming.	Keyswitches can be used to Arm and/or Disarm the system in addition to, or in place of, PIN Codes or Wireless Remote Keys.
43	Securitel Reporting Format	Securitel Communications task and Reporting Format
44	Pulse Counting.	Provides more sophisticated monitoring of detection devices that require verification of an abnormal condition.
44	Siren output to operate as an Auxiliary.	The Siren Speaker output can be used as a normal Auxiliary output if required.
44	Six Digit PIN Codes.	Forces all PIN Codes programmed to be 6 digits in length for a higher level of User verification integrity.
44	Smoke Detector Reset	User PIN Code operation to momentarily activate an Auxiliary output to reset latching Smoke Detectors.
44	Sub Areas.	Area 4 can be defined as a Sub-Area (or common Area) allowing it to be armed/disarmed by any, or all, of the other Areas.
45	User Auxiliaries	PIN Codes can be programmed for the sole purpose of controlling one of 2 "User" Auxiliaries.
45	Walk Testing.	Allows Users to manually test detection devices.
46	Wireless Remote Control.	Wireless Remote Keys can be assigned to the system for Area control, Auxiliary control and Panic alarm.
46	Zone Self Testing.	Zones can be tested when the Area is disarmed to check for masking or other problems.

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NOTE
The page numbers in the table above, refer to the Inner Range IQ Plus Programmer's Manual Part Number: 630047plus

Warranty

Inner Range Pty Ltd is proud of the reputation it has gained in the provision of high quality electronic products. Exhaustive factory and field testing ensure that enhanced system programming features and additional hardware components operate as expected prior to their release to our customers. Extensive function testing is carried out on every Inner Range product prior to it leaving the factory.

It is our intention to completely satisfy the requirements of our customers. To that end, Inner Range Pty Ltd stands behind its products with confidence. A Two Year Warranty accompanies every Inner Range product. Should any Inner Range product fail to function as intended by the manufacturer within this period, it should be returned to the distributor and the fault or symptom detailed. Inner Range will, at its own discretion, repair or replace the product as soon as possible.

This Warranty does not cover product failures occurring wholly or in part as a result of misuse, malicious damage, accidental damage or acts of nature.

Disclaimer

1) The manufacturer and/or it's agents take no responsibility for any damage, financial loss or injury caused to any equipment, property or persons resulting from the correct or incorrect use of the Inner Range IQ system and its peripherals. The purchaser assumes all responsibility in the use of the IQ system and its peripherals.

2) Whilst every effort has been made to ensure the accuracy of this manual, Inner Range Pty Ltd assumes no responsibility or liability for any errors or omissions. Due to ongoing development the contents of this manual is subject to change without notice. Check regularly with your supplier or the Website for updates.